

10337

June R.P. Ross

DOCUMENT NO. 838 2 of 2
Invertebrate Paleontology
Yale Peabody Museum

Field Notes Book 2

Central States Ordovician-Silurian

May 26, 1995, to June 14, 1995

Micklejohn Peak, Nevada - 6/14/1995

[ref. to several 1998 coll. in last 15 pages]



1995. Central States Field Trip

May/June 1995

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Please return to:

May 26 - June 14, June R.P. Ross

Book 2
of 4 books

1995. Dept. of Biology

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5/26/95. Left Beechmont/Milhamville
- took I-275 to IL 827 ~~having crossed into~~
Kentucky.

(@ Highland Hwy \$1.25 lunch)

Followed road - log of Meier & Tolchin (1981)
Step 1.

Ky 9 route 2½ miles S of Alexandria
at intersection with IL 827

Picked up Ky.

Near Melita Rock Ham, Ky side

(45)

Rel & old X on south side of Ky 8 at
junction with Ky 1109. Old x at intersection
63 ft Point Pleasant - no top at
bottom contacts in this X

1 B&W photo of old X face. Greater
thickness of shale intervals in lower
½ of X face. But 500 yds west on Hwy 8
there is a new X face that shows
considerably greater thickness
than indicated by Meier & Tolchin (1981)

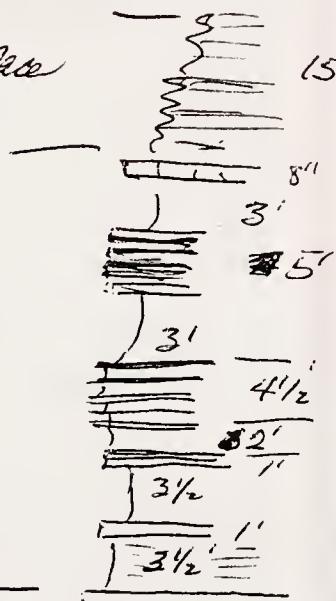
5/26/95

cont'd from prev. page

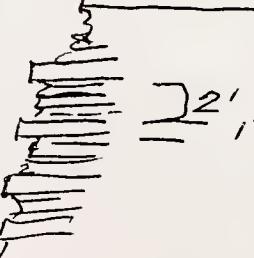
2 B/W photos of lower quarry face
+ thin ls. + much shale

Mixed at top!

Rope



Pt Pleasant



Ls. ledge 3" to 8" to 12" thick
separated by silty shale 1" thick
with thin 1" lime band
Some of the thicker ls are
calcareous and X bedded with
2-3" nippelmarked base
some silty ledges are burrowed
and disrupted

B/W photo}

65'

5/26/95 (46) Meyer et al. Stop 2 - Ky Hwy 8.
(1981)

Slumped outcrop of lower ~~Kope~~ Kope Fm.

Slabs of brownish calc. siltstone and some
calcareous ls. with small blocks; some
bed of small columnar (encrusting) - columnar
sandy silt with laminae bedding, Xbedding.
Some bluegray siltstone/shale associate with fine
calcareous. ^{are very common} ~~are common~~ in all lithos
Shale is gray Coll. 5/26/95/H float in
lower few ft. of Kope Fm

Took Ky 1109 south to Ky 9(FF) road
Extensive cuts from intersection Ky 9 &
Ky 1109 east-southeast to Mayville

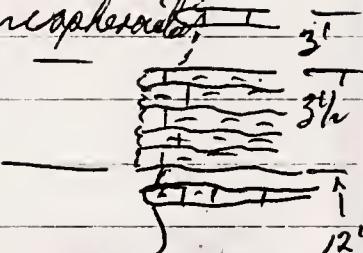
"Thick" rubbly bed at or near base
of what we ~~are~~ taking to be
Fairview Fm. in Mayville on IL 86⁸
coming down ^{long hill} from Hilltop shopping center
to ~~East~~ Mayville.

Information Center at Mayville closed at
4pm - it was 4:30pm



5/26/95 / Bluegrass Center 1998 Adjacent to
Retained to top of hill & rocks found

(H) Hilltop shopping center on US 68
rocks cut in back of parking area of
shopping center. Coll. 5/26/95 B - float
- at least 2 lithologies
orthocerids, calymeneid brachiopods, *isostrophids*,
large "Hebertella" - 1/2", *Platyptrophia*,
bivalve, gastropod, hemispherula,
trilobites, ^{3"}
Siltstone, calcareous, burrowed in
2"-6" beds, prominent ledge



Calcareous and siltst and sandy siltst
in 2 to 3" beds, shale makes up 50% or more
of this interval

Calcareous 5"
Silt + thin Calcareous

Collection 5/26/95/B

See J H Peck, 1966, USGS Bull 1244B, p. B-4 + B-5

The locality is in the Bull Run unit or higher??

(Is this comparable to Gass Hill
section below Whitewater / Saluda
units?)



5/26/95. S from Mayoville on "plateau"
Kyg 1448 intersects w. Kyg 11 - excellent
exposure to N of intersection -
on top of plateau

On top of plateau ^{wavy} ~~modular~~ (late)
w. a little shale & more shale
comes in as you go down the
strat. section. Massive bed at
top of wavy-bedded

Excellent sections on Kyg 13 of
intersection of Kyg 1448 & Kyg 11; also
N of Kyg 11.

See AA = Kyg 9 W. of intersection
with Kyg 11. Kyg 9 road sections

West of Bracken Co. line on
Kyg 11 extensive road sections.
9? (T.R. 6/98)



5/26/95. — Kentucky 7 has a series of excell. ~~outcrops~~
from Mayville to Covington.

Section seems to "shale" up from Mayville
to southeast edge of Covington.

Lippe seems to expand (shale) upwards into
overlying lower part of Bellmore.

Most of the shale beds thick & thin.

Fine, wavy ls. beds and
some salt

60'

100'

Silted thick & thin to prisms
7⁴ to 2⁴ ! in 150 yards

90'

ls. with thick shale
interbeds

100'

Drove to Flemingsburg to try to locate a Holland exposure
there, but we were unable to locate it; seems
to be all grass covered. Perhaps Holland's description of
locality is not correct?



(Exit 79 on I 275 - 1998 data)
5/27/95 Reidlin (Mason) Road - road
cut starts at intersection of Mason Rd &
Ky St Hwy 16. See p. 50, Fig. 20, Tobin & Pyor
in Meyer et al 1981. road log, Soft ball field
2 B&W Photos. Kope Fm below & overlying ^{Taylor Mill Ky}
Fairview Fm. 1st photo of contact between
2 fms; other photo shows mainly
Fairview Fm & some Kope Fm below.

Kope has "2 in" cycles of siltstone/calcareous ^{fusil} mudstone
lower 10' of Fairview includes some ^{l.} nodules laminations
(Parking area N.E. of road is ~~in~~ a soft ball playing field)
Fairview ^(L) have ripples 1"-2" high and 2' between crests

Collection 5/27/95 A - bryozoans from lower part of
Fairview ± 30' above base of formation.

2 Photos B&W. 1 above (just) level of
parking area & another $\frac{1}{2}$ way
up hill (middle of Fairview Fm)

1998 - 1 photo at top of road thinly bedded
rocks ^(L) 1 photo contact thickly bedded ^{rocks} rocks
overlying thinner bedded ^(L) rocks
1 photo further down cut - packstone

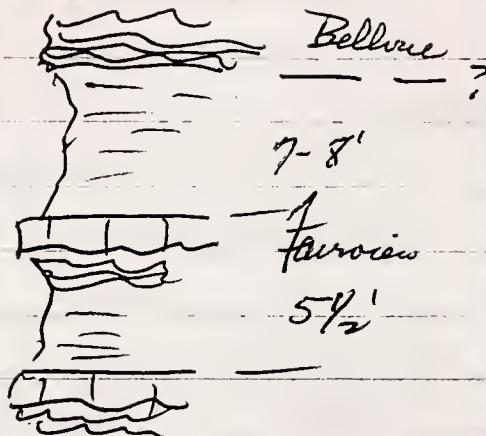
4-81

1908 — thicker ~~calcareous~~⁴⁻⁸¹ are p/g with
almost in place brachs + bryozo. - siphon bedded,
1 photo - below prev. photo
1 photo - same " "
1 photo - west nr. parking area
1 photo - toward west incl. lower
half of sect
1 photo - opp. offhall entrance
(St. Elizabeth's Sports Medicine Center)



5/27/95 2 B/W photo at top of Reidlin (Mason) bed,
 Bellvue - thin, rippled beds with a 1 to 1½'
 shale (Miami town Sh.) at about 12'

Ls. in top of Fairview
 has sharp prominent
 contacts with rippled
 beds below



See p. 35 & others.

most are

See also Reference in Algeo, T.R. and

Dattilo, B. 1992, GSA Re-Mtg Field Trip, Oct. 25, 1992

We went down into Covington looking
 for Information Center (maps!) - no I.C. -
 we were referred to Welcome Center
 out near Florence so took I-75 & stopped
 at Florence Mall to wh. we had been
 referred. No luck. Refered to Rest Area
 about 3 miles S. of Florence Mall. Finally,
 we located an Information Center
 & maps. ~~Covd~~ Covd on I-75 to I-70 then
 I-70 to I-265 to I-65 to Elizabethtown.

Torrential, blinding rain & hail at exit
 to Elizabethtown! Motel & just to right of exit



5/28/95. Elizabethtown.

Packed rocks

5/29/95. Elizabethtown.

Packed rocks; reviewed field locality data, plotted loc. data; established schedule for coming days

Free Will Baptist Church at Heartland—
worked at the picnic table in the shade.



5/30/95 left Elizabethtown after shipping
2 cartons of ~~xx~~ via UPS.

Travelled N on I 65 to Louisville &
Jeffersonville. Checked in at motel.
Ate lunch. Circuit City, Clarksville, TN

I 65 north to Seymour, turn E. on US 50 to
North Vernon & then to Versailles. Went N to
Osgood. Turned on US 421 looked for outcrops on
Ind. 350 — they are all grassed over. Cont'd on
Fox (1962) Sh. sect. 13 - Versailles just S of town.
Cones - \$1.37 Ind. 350 to Moores Hill; we did
on my Versailles N on Indiana 421, then at ^{pro} Osgood turned E on Indiana 350 — no
road cut exposures. all of them are
grass-covered slopes.

William T. Fox
Borrow W.T. Fox's Ph.D. dissertation
from Northwestern University 1961

Hill E of Versailles down to entrance
to state park entrance shows some
exposure. A better exposure is on
other side of creek valley, 0.1^E from Versailles
city limits.



not find any unpasssed sections around Moes Hill.

We back tracked on Ind 350 to Milan & went on Ind 101 5 miles to US 50. Went E. on US 50 to Dillsboro where we did not find much exposed.

We back tracked on US 50 to Versailles



5/30/95 (contd.)

Took Indiana 120 South from Versailles to just beyond Cross Plains where we picked up Ind 62. We went SW on Ind 62 ca 14 miles where it was joined by Ind 250.

~~Miles W. of Canaan~~
drove ½ mile to top of hill - some exposures. We then backtracked on Ind 62 to Canaan - there were some exposures here & these 2 miles W. of Canaan. From Canaan contd. on Ind 62 for ca 4½ miles toward China. We then turned W on Ind. 250 for ca 1 miles where we picked up US 421. Then just N. of Madison we took Ind 62 bypass around Madison to Clarksville.



5/30/95

In Brandywine Falls Park
5/31/95. Left Jeffersonville on I65 to Sellersburg; then took Indiana 403 to Charkstown where we took Indiana 3 north to meet Indiana 362, then Indiana 62 to west of Madison. Discovered at Clifty Falls St. Park entrance that there was a charge of \$2/car for Indiana residents & \$5/car for out-of-state cars. Contd on Indiana 62. Picnic bench at Clifty.



Holland (1993) Madison No. 3; roadcut
 5/31/95 on east side of US 421, 3 miles S of
 intersection with Indiana 56 in Madison, IN.

(H9) (Note: There were ↑
 2 collections labelled 5/31/95 D,
 we've labelled them D₁ & D₂)

5/31/95 / D₁

Massive weathering siltstone
 v. silty upper 2'.

Wavy bedded siltstone

+ ls. with wavy mesh
 a few thin ls. siltstone with organic expression

Tetraclite bed

ls. + siltstone

Siltstone, dolomitic, 2"-4" oyster bed

ls. sh., very discontinuous

ls. brachi (Terebratulum?), dark 2"-6"

transition interval between siltstone
 above and ls. + siltstone below

ls. v. discont in upper 3'

ls. v. irregularly bedded, 2"-6", iron

stain common, with about equal
 amounts of silt+shale,

very shaly at top 6'

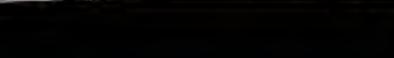
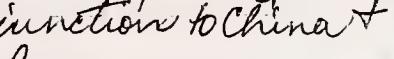
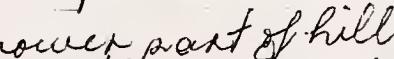
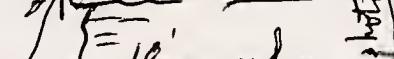
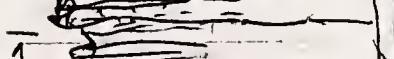
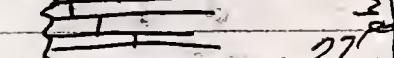
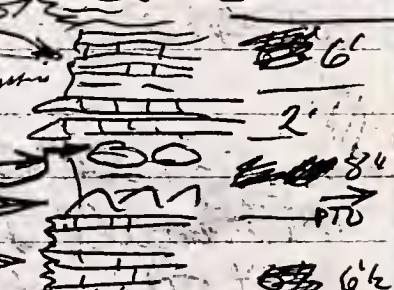
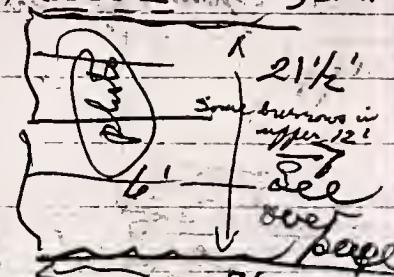
5/31/95 / E →

Siltstone, greenish gray, brachi, corals, bryozo.

some borrows, will 20% calc. cement

2"-4" ls. beds which thicken & thin
 in 10 m. along outcrop

5/31/95 A



however part of hill
 at rd junction to China +
 Dillabasco



P.T.O. "A" & B side with coral heads "Peleophyctes" lower one is
jumbled up (reworked?) photo

P.H.

Discovered that 2 collections were different
labelled 5/31/95/D. So we've labelled
the collections 5/31/95/D, & 5/31/95/D₂
but it is only our "guess" that
the smaller collection came from
higher in the section — thinking
that this collection has the
"Hemotyphay" horizon.
~~BUT~~ we need to check these
samples

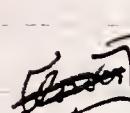


5/31/95

Madison No. 3 (cont'd)

1-2

Dolo massive
moldic



Shaly contact

Breccia

Mfs? shale breccia

plus
plus
plus
plus

Shale, gray silty burrowed

5?

5B

4'

19'

2

4'

2

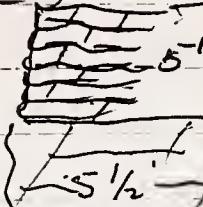
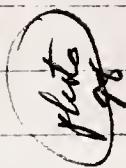
31

2

9'

more silty upper part

Dolost 2"-3" ledge + silty
interbeds



Dolost. 6" to 18" - conglomeric channels

Dolost with columns, N. silty

~~Hightower~~ Shale, dk brown to blk,

Crushed, rex pyritic bgr

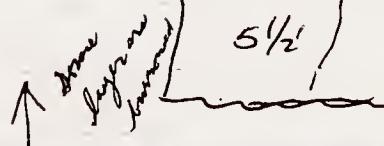
Dolo silty, massive

waterfall

5/31/95/C

(in CH socket)

4/18/98/G



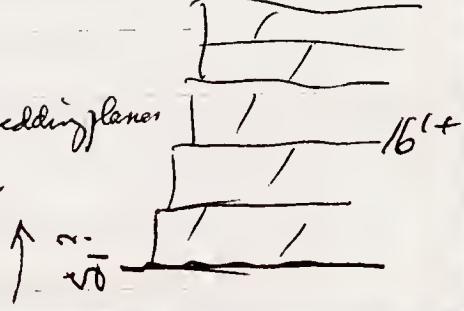


5/31/85 Madison no. 3 (contd) ~~2~~³

Photo 90
top cut
looking down
(vertical scale)

burrowed, some fossil concentrate bedding planes
in 1' to 3' beds no large ^{no large}
~~#~~ dolostone slightly pinkish yellow rough.

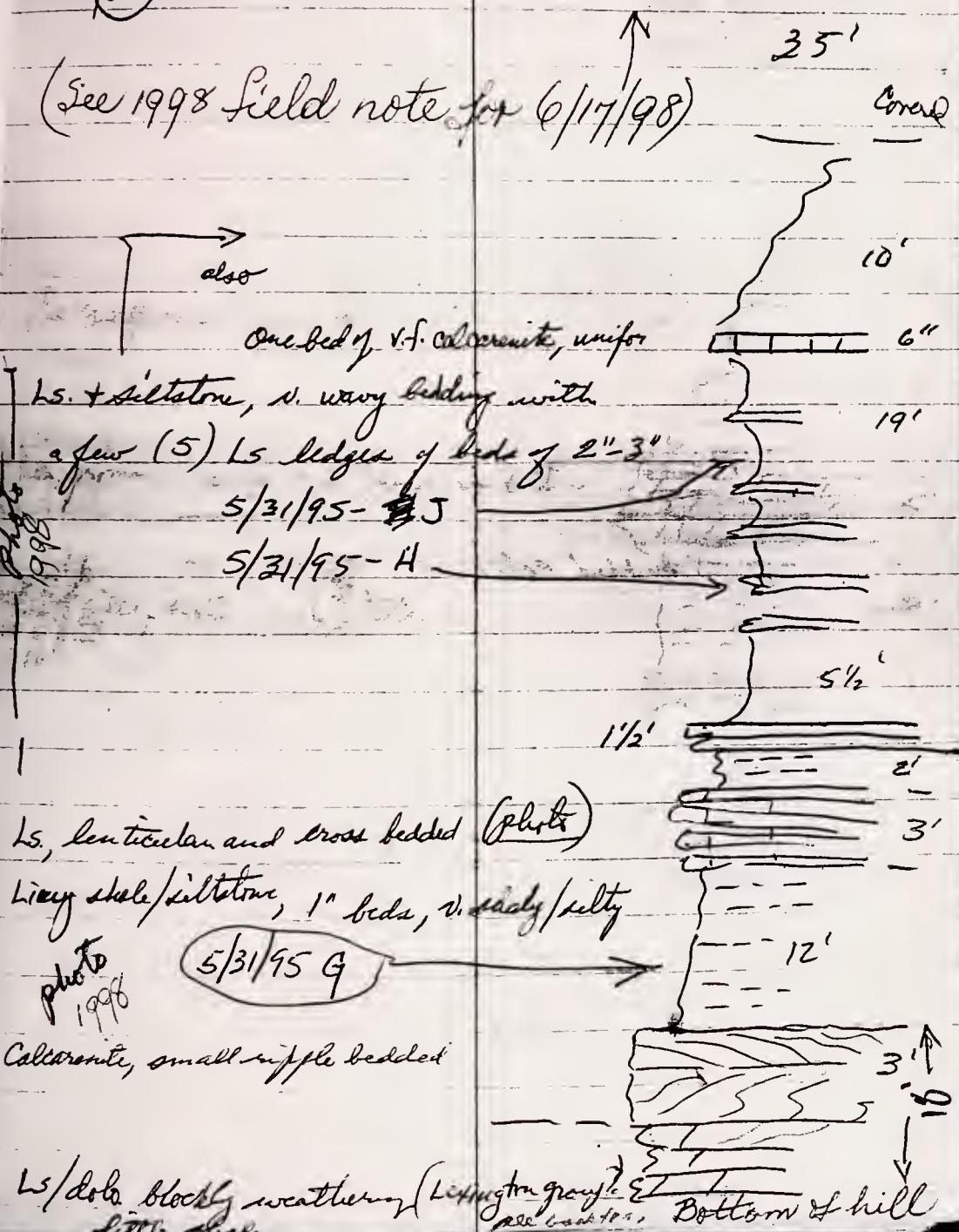
top of road cut



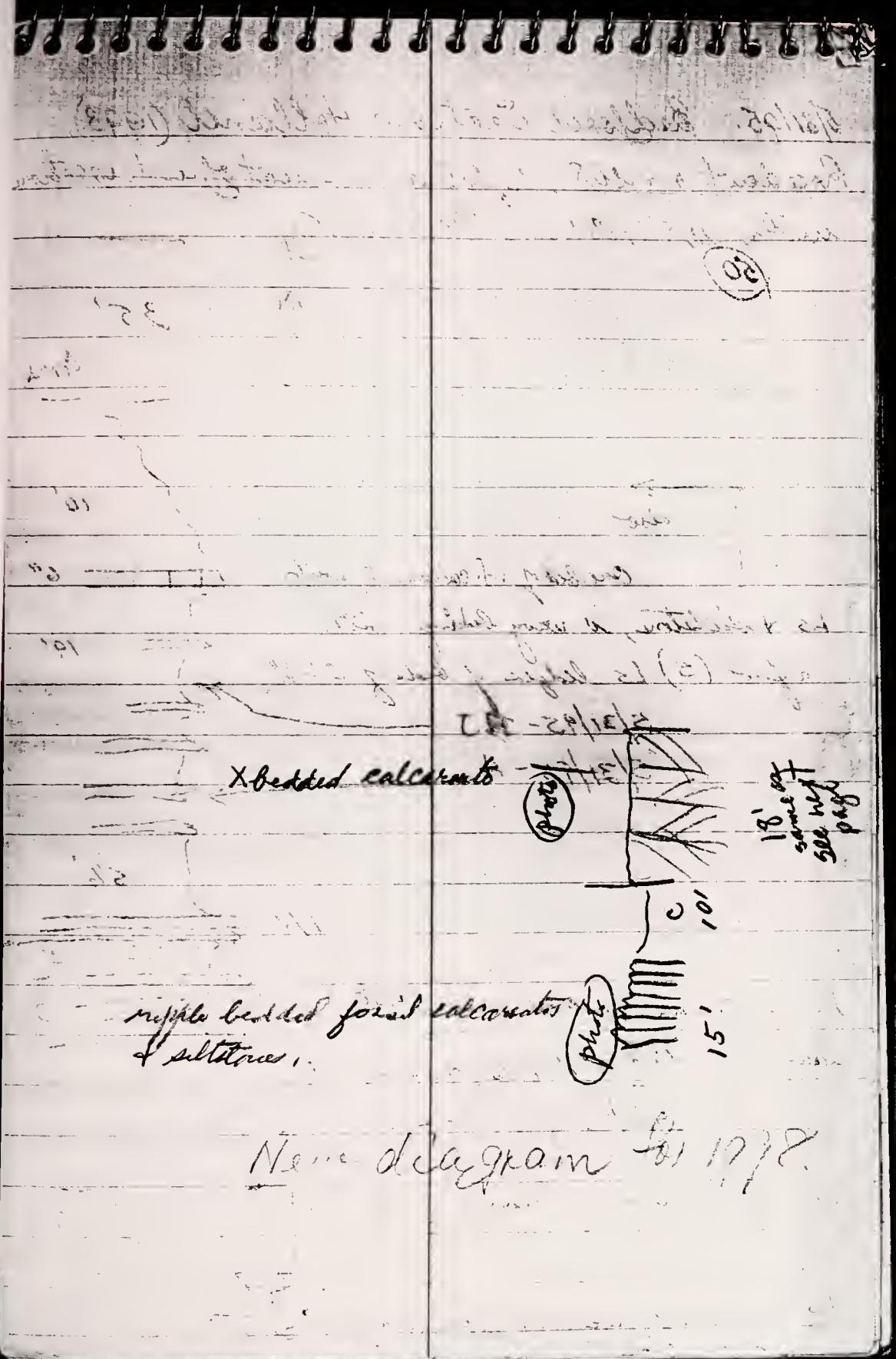


5/31/95 Bedford Section, Holland (1993),
Roadcut on MS 42, 2.5 miles east of intersection
with MS 421 in Bedford, Ky.

(50)







New diagram to 1978.



5/31/96 Bedford Ky

22
an

Section on
page 3 on
top of this
section

Covered

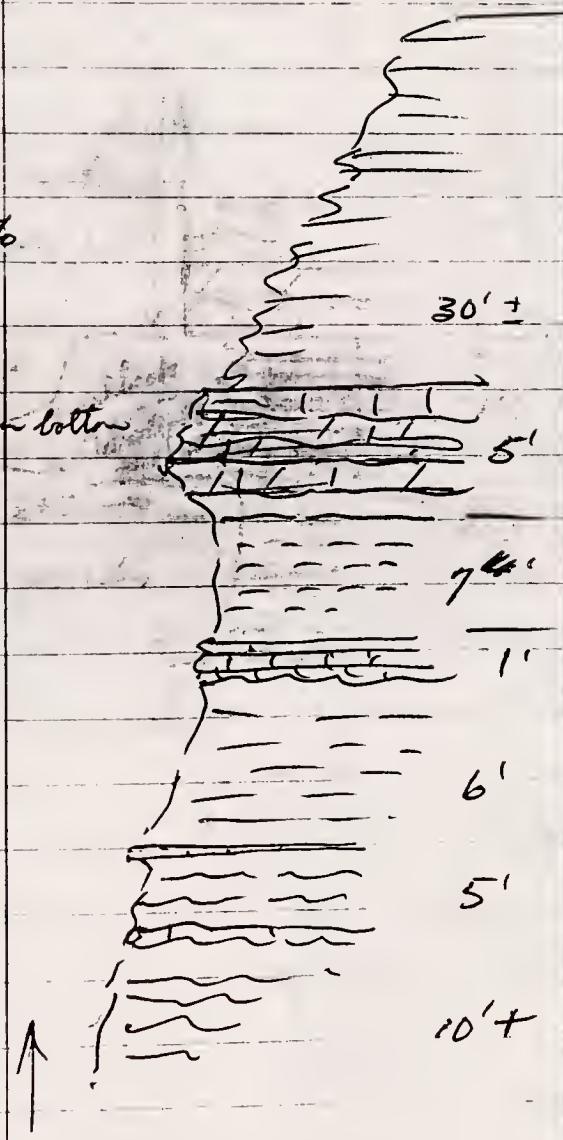
Poorly exposed ledge of ls. & siltstone

Ls., prominent ledge in 2nd road cut from bottom

Ls. & silt. silty + bluegray siltstone

1998 photo
last frame

Siltstone, nodular ls., with a
few ls. ledges. bluegray



Covered below
P.T. section down below



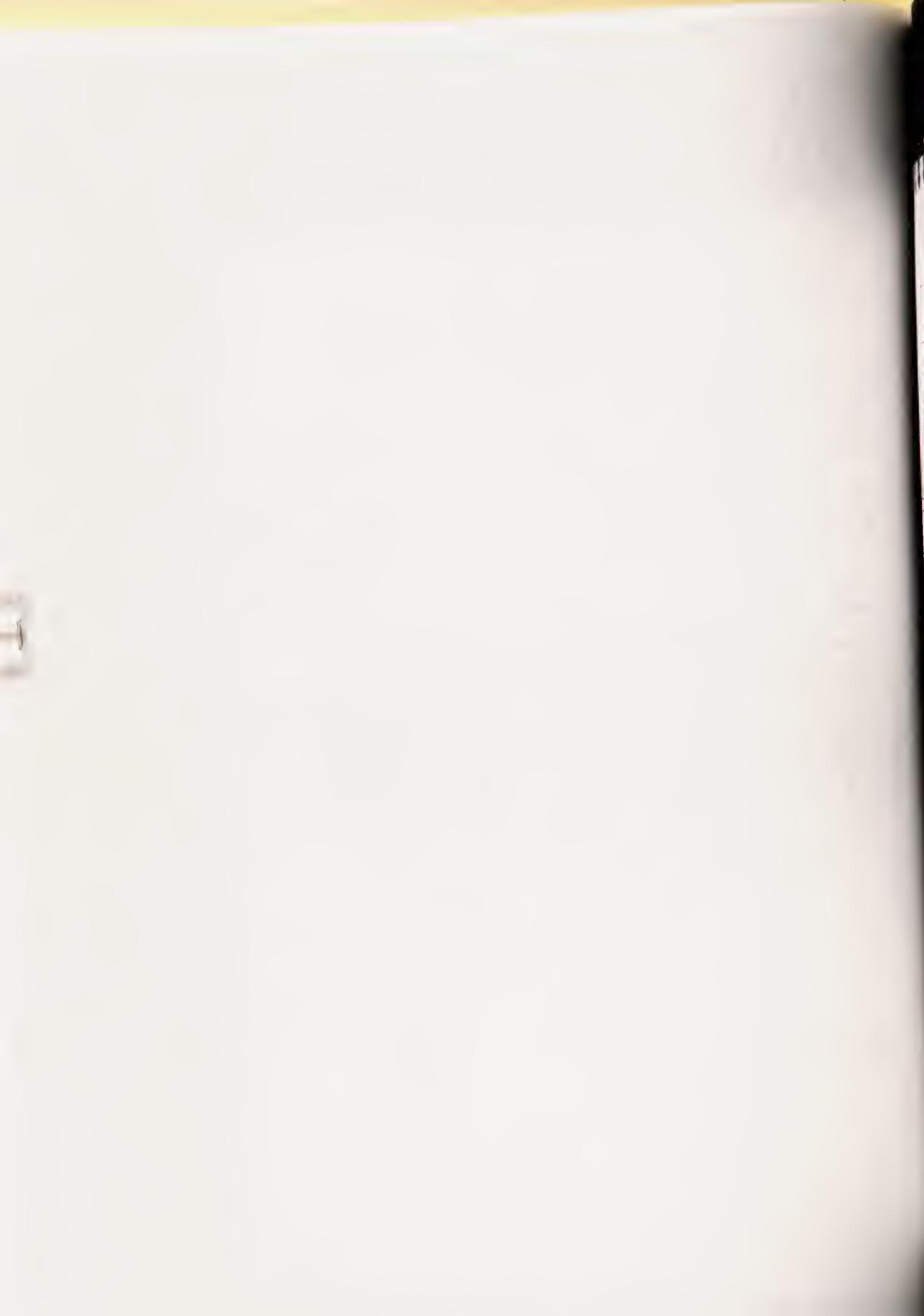
5/31/95

Bedford p. 3
Toward Top of hill Third road cut

This section lacks the thick siltstones of the Schrader and the "upper" Whetstone. Two unconformities with top part of truncate underlying unit toward the east in third outcrop. — Section is thin due to more Silurian stone because it has Lexington at base.

2 photos + plots
roadcut + close up





deeply weathered dolostone at top 5' seen +
of old cut.

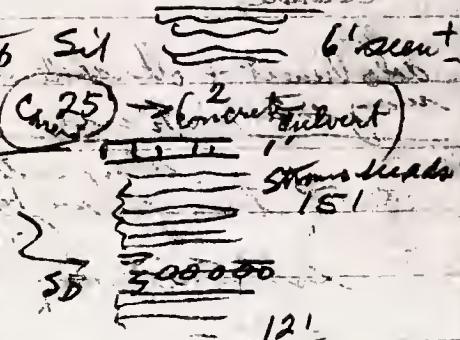
4 feet from calcareous top Ord.

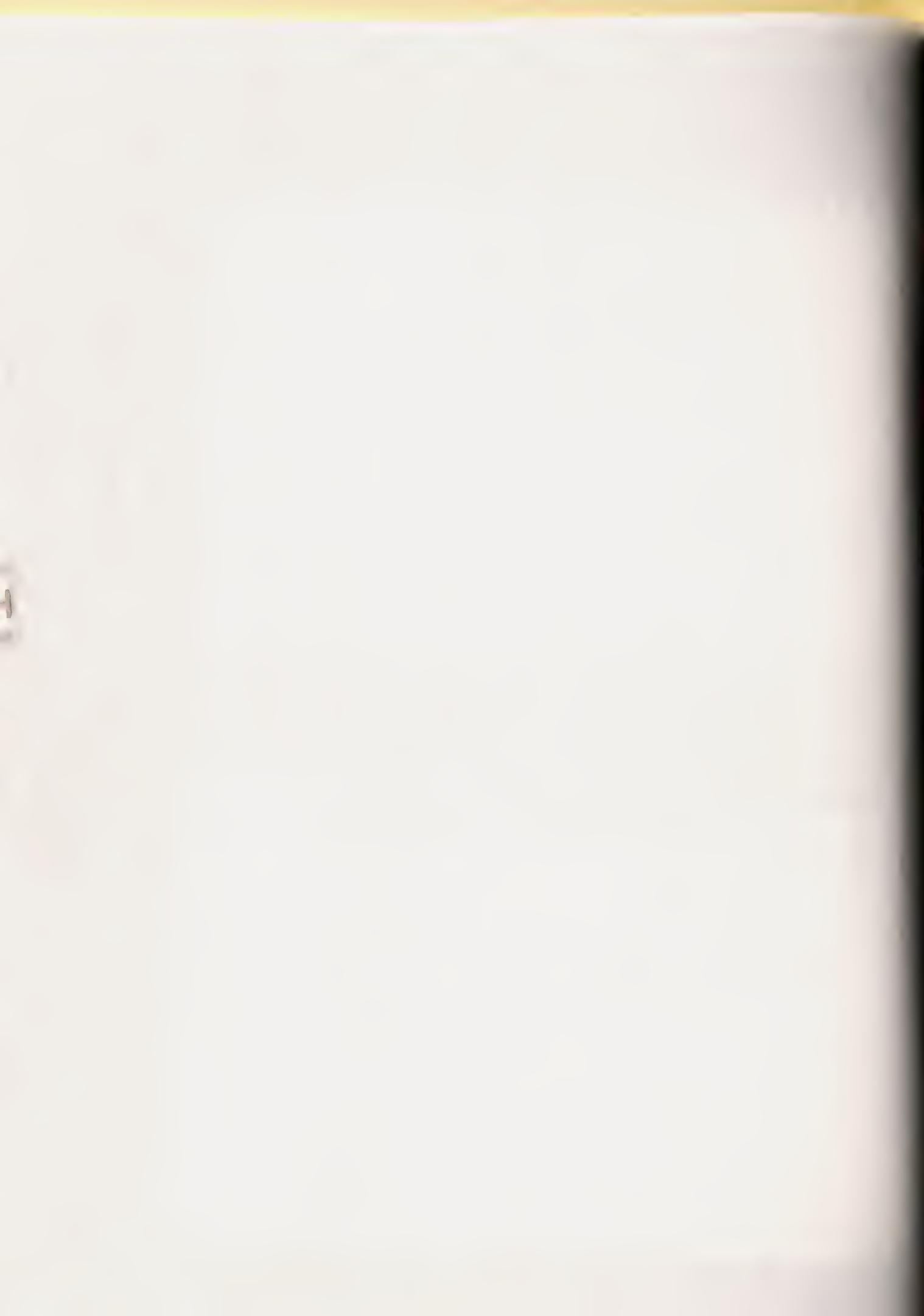
saltstone-barrowed dolostone, slabs
with rip-up clasts (2"-3")
ledge of calcarenous saltstone

gray dolomite

fossiliferous g/lg & saltstone

Coll 6/17/98-A





6/31/95. Bedford road cut (cont'd).

At least 6 B&W photos taken here. They were all taken in shade (3:30 pm onwards).



5/31/95. Rd from Milton to bridge on
Road cut exposures on US 421 on
Key side. Road (long grade)
Rd cut shows features in general
similar to Bedford rd cut exposures
but laminated siltstones of
Sabuda were present.

Madison
Rd exposures on Indiana 56
west of Clifty Falls State Park
entrance. Long sequence
shows more of Kope Fm than
we saw on US 421 at NE side of
Madison. This Clifty section only
goes into lower part of Brasfield
Fm whereas US 421 (NE side of town)
has a far more extensive succession
of Brasfield Fm.

See Guidebook



6/14/95.

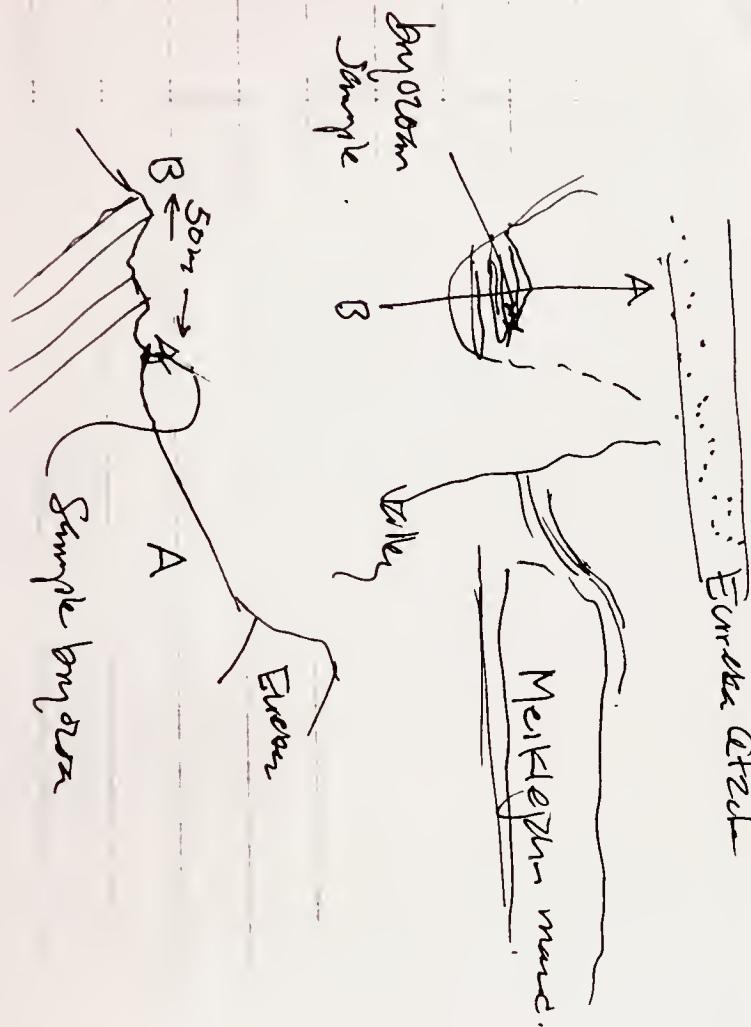
Coll. 6/14/95/A. Bryozoan coll. made by Russell Shapitz & C. Santa Barbara Float. Southwest side of Meiklejohn Peak, Lake Mountain Quadrangle, Nevada. Antelope Valley Formation. Float probably from mound (or just below mound). The mound is within the range of zone L.

See Ross, R. T. Jr. 1995. Mid-Symposium Field Trip: Las Vegas to Meiklejohn Peak near Beatty, Nevada, p. 51-62. In: Cooper, John (edit), Ordovician of the Great Basin: Fieldtrip Guidebook & volume for the Seventh Internat. Symposium on the Ordovician System. 151p.

(6 pieces of rock)

Coll. 6/14/95/B. Float collected by Paul Cooper. See diagram of locality over the page.





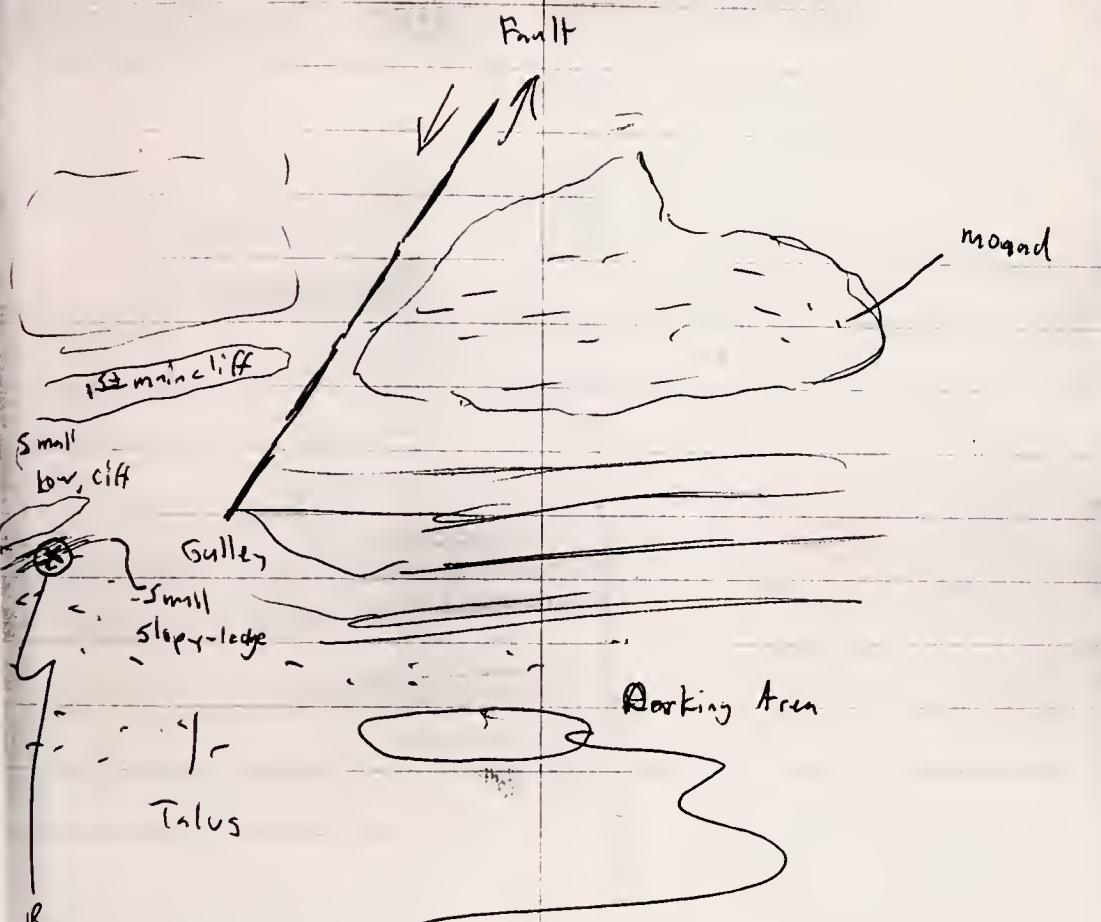
Paul Copper, Laurentian Univ.
Sudbury, Ont. Canada

6/14/95/B - float



Dr. M. John Parks Collection
possibly Oaxacan, Mexico
however may be Antelope Valley

View from Tower



Bifurcations -
as w/ many
tributaries (sandy tan shale)
Orthoceras-like? brachiopods
But below good Palisades
and coalites.

FLOAT
Reub Ross says this is
float from the mound
smells

Russell Shapira, M.C. - Santa Barbara



finishing his
David Daigle { Ph. D. dissertation
work on hadgounds.
Robert Sloan commented

Origin of Mammals
Dinosaurs.

